## **IN THE ABSTRACT:**

Please replace the original page 13 with the accompanying replacement page 13, which includes the following rewritten paragraph beginning at page 13, line 3:

1 A system for processing the measuring signals from a sensor 12, 2 including consisting of a first micro-controller 10 having comprising an input for 3 the sensor data, a first memory 18, 19 and a first processor 16, and a second 4 micro-controller 24 having comprising a second memory 26, 30 and a second 5 processor 27. A bus system 22 is provided that connects the first micro-controller 6 10 with the second micro-controller 24. The first memory 18, 19 stores data and 7 instructions that are configured so as to be adapted to the sensor 12 and enable 8 the conversion of the signals provided by the sensor 12 into data representing 9 the variable to be measured. The first processor 16 executes is embodied in 10 such a way that it can execute the instructions stored in the first memory 18, and 11 thereby convert in real-time the measured signals of the sensor 12 into data that 12 represent the measured variable, and transfers the resulting transfer these data 13 by way of the bus system 22 to the second micro-controller 24. The second 14 memory 26, 30 stores sensor-independent data and instructions, which enable 15 the processing, by the second microprocessor 27, of the data transferred by the 16 bus system 22, representing the variable to be measured. The second processor 17 27 is embodied so as to be able to execute the sensor independent instructions. 18 The invention is, for example, suitable for an electricity consumption meter where 19 the tariff rate structure can be stored in the second memory.